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APPLICATION NO.	FILING D	АТЕ	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,115	03/08/20	005	Hans Lobl	DE 020206	9528
65913 NXP, B.V.	7590	08/06/2007		EXAM	INER
NXP INTELL M/S41-SJ	ECTUAL PRO	CRANE,	CRANE, SARA W		
1109 MCKAY	DRIVE			ART UNIT	PAPER NUMBER
SAN JOSE, C	A 95131			2811	
				NOTIFICATION DATE	DELIVERY MODE
				08/06/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

	Application No.	Applicant(s)				
	10/527,115	LOBL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sara W. Crane	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be the state of	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
<ol> <li>Responsive to communication(s) filed on 14 M.</li> <li>This action is FINAL. 2b) This</li> <li>Since this application is in condition for allower closed in accordance with the practice under E.</li> </ol>	action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) 6 is/are withdrawn fro 5) ☐ Claim(s) 4-5 is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:					

## **DETAILED ACTION**

#### Election/Restrictions

Applicant's election of claims 1-5 in the response of 5/14/2007 is noted.

### Allowable Subject Matter

Claims 4-5 are allowed. The bulk acoustic wave filter containing the elements recited, including two bulk acoustic wave resonators which comprise means for suppression of pass-band ripple in a ladder or lattice type configuration, is not taught in the prior art.

#### Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cushman et al. in view of Takahashi et al. and Ballato.

See reasons of record in the Office action of 10/04/2006.

#### Conclusion

Applicant's remarks with respect to the rejected claims have been considered but are not convincing. Applicant notes that the references of Ballato and Takahashi et al. teach surface acoustic wave devices, but it is not clear, on the face of it, why this is important. Both bulk and surface acoustic waves are mechanical vibrations of a lattice.

Surface acoustic wave devices, such as that of Ballato, include bulk vibrations (as in the abstract, which states that the bulk vibration strikes corrugations located upon the bottom of the substrate). And any structure on the surface of a device, such as a roughened layer or an absorbing layer, would have interact with the acoustic wave at the surface, where the surface structural feature is. So that the prior art teachings of Ballato and Takahashi et al., indicating that absorption or dampening of a mechanical vibration of a lattice occurs due to structural features at the surface, would appear to be directly relevant to the device of Cushman et al. Applicant notes in addition that the Cushman device of figure 1 has a region under the layer 24 with no adjoining element. It is not clear why this matters - nothing in the claim language appears to preclude such a substrate.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The SPE for Art Unit 2811 is Lynne Gurley, who can be reached at 571-272-1670. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner

Art Unit 2811